BRUHAT BANGALORE MAHANAGARA PALIKE

BILL OF QUANTITIES (BOQ)

ame of the work:- Developmental works for providing Drinking water facility in Thanisandra ward no. 06.

Sl. No.	Approved Qty.	Description	Unit	Issued to Technical Manager , KRIDL	
				In Figures	In Words
1	4	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction	Each BW	1938.46	Rupees One Thousand Nine Hundred Thirty Eight and Forty Six Paise Only
2	200.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) 0 to 50 m	Rmtr	315.18	Rupees Three Hundred Fifteen and Eighteen Paise Only
3	200.00	50 to 100 m	Rmtr	412.00	Rupees Four Hundred Twelve Only
4	200.00	100 to 150 m	Rmtr	458.35	Rupees Four Hundred Fifty Eight and Thirty Five Paise Only
5	200.00	150 to 200 m	Rmtr	484.10	Rupees Four Hundred Eighty Four and Ten Paise Only
6	200.00	200 to 250 m	Rmtr	560.32	Rupees Five Hundred
8	160.00	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty	Rmtr	1325.00	Rupees One Thousand Three Hundred Twenty Five Only
9	80.00	Providing 250mm dia PVC Pipe 6kg/cm	Rmtr	1133.00	Rupees One Thousand One Hundred Thirty Three Only
10	4	Providing and fixing 175mm Borewell Cap	No.	100.00	Rupees One Hundred Only
11	4	Providing and fixing of clampset and bore cap to the pump	Each	450.00	Rupees Four Hundred Fifty Only
12	60	Providing and fixing 175mm MS Coloer etc as per specification and direction of the engineer of the work	Each	150.00	Rupees One Hundred Fifty Only

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Signature of the contractor

30/03

Executive Engineer

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	Approved Qty.	Description	Unit	Issued to Technical Manager , KRIDL	
				In Figures	In Words
13	4	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps **including of all taxes 12.5 HP 25 Stage**	No.	70600.00	Rupees Seventy Thousand Six Hundred Only
14	1100.00	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark	Rmtr	431.00	Rupees Four Hundred Thirty One Only
15	2320.00	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of **GROUP-A. 3C x 6 Sqm mm**	Mtr	188.70	Rupees One Hundred Eighty Eight and Seventy Paise Only
16	184	Heavy Duty Collar 50 mm dia	Nos	150.00	Rupees One Hundred Fifty Only
17	4.00	Erectrion of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps one borewell cap. Cable clips with bolts, nuts, valves guages etc involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost)	Mtr	3000.00	Rupees Three Thousand Only
18	4.00	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,	Each	302.00	Rupees Three Hundred Two Only
19	120.00	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A **P No. 55/ I No. 7.4.4 4 core 16 Sqmm**	Mtr	140.40	Rupees One Hundred Forty and Forty Paise Only
20	1200.00	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. **P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm)**	Mtr	10.80	Rupees Ten and Eighty Paise Only
21	100.00	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.**For Cutting Road Surface**	Mtr	85.00	Rupees Eighty Five Only
22	16.00	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV **P. 40mm dia GI pipe**	Mtr	345.00	Rupees Three Hundred Forty Five Only
23	4.00	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **16Sqmm**	No.	280.00	Rupees Two Hundred Eighty Only

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	Approved Qty.	Description	Unit	Issued to Technical Manager , KRIDL	
				In Figures	In Words
24	**4**	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia,	No.	2727.00	Rupees Two Thousand Seven Hundred Twenty Seven Only
25	**24**	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. **32 Amps**	No.	234.00	Rupees Two Hundred Thirty Four Only
26	**4**	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications	No.	1579.40	Rupees One Thousand Five Hundred Seventy Nine and Forty Paise Only
27	**4**	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete 50 mm dia. **50mm dia**	No.	227.90	Rupees Two Hundred Twenty Seven and Ninety Paise Only
28	**8**	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete	No.	104.30	Rupees One Hundred Four and Thirty Paise Only
29	**4**	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications	No.	1486.00	Rupees One Thousand Four Hundred Eighty Six Only
30	**4**	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. **5-32Amps**	No.	1547.00	Rupees One Thousand Five Hundred Forty Seven Only
31	**93600.00**	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete	Sq. cm	0.34	and Thirty Four Paise Only
32	**4**	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **12.5HP to 15 HP Star Delta Starter**	No	11000.00	Rupees Eleven Thousand Only
33	**16.00**	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. **Hard Soil**	cum	283.02	Rupees Two Hundred Eighty Three and Two Paise Only
34	**40.00**	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc.,	Rmtr	161.71	Rupees One Hundred Sixty One and Seventy One Paise Only

EXECUTIVE ENGINEER-4
KRIDL, BMP EDN BLDN
BENGALURU-560 010

Signature of the contractor

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Executive Engineer

30/03

	Approved Qty.	Description	Unit	Issued to Technical Manager , KRIDL	
				In Figures	In Words
35	**16.00**	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs	cum	76.32	Rupees Seventy Six and Thirty Two Paise Only
36	**10**	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Each	2120.00	Rupees Two Thousand One Hundred Twenty Only
37	**324**	Refilling avilable earth earth around pipe lines, cables in layers not exceeding 2cms in depth, compacting each deposited layer by ramming ater watering with lead upto 50mm and lift upto 1.5m including cost of all labour complete as per specifications allow 60% of rate considered under item	cum	76.32	Rupees Seventy Six and Thirty Two Paise Only
38	**24**	Providing and fixing 50mm dia Gun metal wheel valve conforming to IS, Specification of approved make as per directions incluidng all lead and lift etc. complete 50mm	Nos	1605.00	Rupees One Thousand Six Hundred Five Only

1. The work should be executed as per the specification and standard specified by the PWD & Other specifications of the Bangalore Mahanagara Palike and as directed.
2. The work should be carried out as per the directions and instructions of the concerned Engineer
3. The Contractor should maintain the quality of work as per the standard specifications.

30/03

Executive Engineer (Byatarayanapura)
Bruhath Bangalore Mahanagara Palike

I am prepared to take up the above work at the rates quoted by me in the Schedule 'B'

30/03

CONTRACTOR

EXECUTIVE ENGINEER
KRIDL, BBMP DIVISION
BENGALURU-560 010